

Datasheet: MCA2235BT BATCH NUMBER 150895

Description:	RAT ANTI MOUSE CD206:Biotin
Specificity:	CD206
Other names:	MANNOSE RECEPTOR C TYPE 1
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	MR5D3
lsotype:	lgG2a
Quantity:	25 µg

Product Details

Applications	This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit <u>www.bio-rad-antibodies.com/protocols</u> .						
	Flow Cytometry (1)	•	NO	Not Determined	Neat - 1/10		
	Where this antibody has necessarily exclude its u a guide only. It is recommon system using appropriate (1) CD206 is expressed following membrane per Leucoperm [™] (Product	not been t se in such nended tha e negative/ weakly a ermeabilis Code <u>BUF</u>	ested for a procedure at the user positive co t the cell ation. Bio 509) for th	use in a particular tes. Suggested work r titrates the antiboo ontrols. surface. Staining r o-Rad recommend is purpose.	echnique this does not king dilutions are given as dy for use their own may be increased is the use of		
Target Species	Mouse						
Product Form	Purified IgG conjugated to Biotin - liquid						
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant						
Buffer Solution	Phosphate buffered salin	ie					
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Alt	oumin					

Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	Chimaeric CRD4-7-Fc protein
External Database Links	UniProt: <u>Q61830</u> <u>Related reagents</u> Entrez Gene: <u>17533</u> Mrc1 <u>Related reagents</u>
RRID	AB_1101315
Fusion Partners	Spleen cells from immunised Fischer rats were fused with cells of the Y3 myeloma cell line
Specificity	Rat anti mouse CD206 antibody, clone MR5D3 recognizes the mouse mannose receptor, a ~175 kDa type 1 membrane glycoprotein that is also known as CD206. CD206 is expressed on most tissue macrophages, certain endothelial cells and <i>in vitro</i> derived dendritic cells (Zamze <i>et al.</i> 2002).
	The mannose receptor, CD206, is composed of a N-terminal cysteine-rich domain, a fibronectin type II domain, eight tandemly arranged C-type lectin domains (CTLD), a transmembrane domain, and a cytoplasmic domain. The terminal cysteine-rich domain binds sulfated sugars, and the CTLD recognizes carbohydrates terminating in mannose, fucose and N-acetylglucosamine, all sugars found on microorganisms and on some endogenous proteins (Su <i>et al.</i> 2005).
	Rat anti mouse CD206 antibody, clone MR5D3 has been reported to be non-inhibitory for the binding of the mannose receptor to carbohydrate ligands (<u>Zamze <i>et al.</i> 2002</u>). Clone MR5D3 has also been shown to work in western blotting (<u>Martinez-Pomares <i>et al.</i> 2003</u> and <u>Su <i>et al.</i> 2005</u>).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
	The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity fc receptors. This may be reduced by using SeroBlock FcR (<u>BUF041A/B</u>).
References	 Martinez-Pomares, L. <i>et al.</i> (2003) Analysis of mannose receptor regulation by IL-4, IL-10, and proteolytic processing using novel monoclonal antibodies. <u>J Leukoc Biol. 73 (5):</u> <u>604-13.</u> Nair, M.G. <i>et al.</i> (2009) Alternatively activated macrophage-derived RELM-{alpha} is a negative regulator of type 2 inflammation in the lung. <u>J Exp Med. 206: 937-52.</u> Hassan, M.F. <i>et al.</i> (2006) The <i>Schistosoma mansoni</i> hepatic egg granuloma provides a favorable microenvironment for sustained growth of <i>Leishmania donovani.</i> <u>Am J Pathol.</u> <u>169: 943-53.</u> Hardison, S.E. <i>et al.</i> (2010) Interleukin-17 Is Not Required for Classical Macrophage

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	ion to augment immunotherapy			
Storage	Store at +4°C or at -2	20°C if preferred.		
	This product should b	e stored undiluted.		
	Storage in frost-free f as this may denature recommend microcer	reezers is not recommer the antibody. Should this atrifugation before use.	nded. Avoid re s product cont	peated freezing and thawing ain a precipitate we
Guarantee	Guarantee 12 months from date of despatch			
Health And SafetyMaterial Safety Datasheet documentation #10041 availableInformation https://www.bio-rad-antibodies.com/SDS/MCA2235BT 10041				at:
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